REVISIONS TO SPECIFICATION

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As noted above, point matches between any image pair within the image sequence 200 are known or may be readily computed (e.g., by sparse optical flow computation), and therefore epipoles and fundamental matrices may be easily determined. Furthermore, at least one infinity homography for an image pair ($H_{12\infty}$ between the first two consecutive images in the exemplary ~~embiment~~embodiment) within image sequence 200 is known or may be calculated. Since computation of infinity homographies for two images is very difficult, often requiring manual intervention where decisions or judgments must be made (which is impractical for image sequences of any significant size), the present invention computes all infinity homographies between any image pair within image sequence 200 from the point matches 201 and the known infinity homography 202.

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The homography transfer process (steps 304-307) is then repeated until all image pairs--or at least all image pairs for which infinity homographies are desired--have been selected (step 308) together with an overlapping image pair for which an infinity homography is known. The process then becomes idle until another image sequence is received (step 309) for homography transfer according to the present invention.